

### **Abstract**

A fuel delivery pipe capable of reducing a pressure pulsation at the time of a fuel injection due to injection nozzles, preventing vibrations and noises at an underfloor pipe arrangement, and turning down a radiate sound from the fuel delivery pipe, wherein a flexible absorbing wall surface 10 formed on a wall surface of a fuel delivery body 1 is loosened due to internal pressure changes to render internal volume of the fuel delivery body 1 increasable,  $\alpha_L / \sqrt{V}$  determined by sonic speed  $\alpha_L$  of fuel flowing through the fuel delivery body 1 and the internal volume  $V$  of the fuel delivery body 1 is set as  $20 \times 10^3 (\text{m}^{-0.5} \cdot \text{sec}^{-1}) \leq \alpha_L / \sqrt{V} \leq 85 \times 10^3 (\text{m}^{-0.5} \cdot \text{sec}^{-1})$  while a ratio  $\alpha_L / \alpha_H$  of equivalent sonic speed  $\alpha_H$  in a high frequency area to the sonic speed  $\alpha_L$  of the fuel is set as  $\alpha_L / \alpha_H \leq 0.7$ , and the cross section shape in a perpendicular direction to an axis of the fuel delivery body 1 is formed in a substantially double side concaved shape, a substantially flask shape, a substantially trapezoid shape, a substantially key shape, and a substantially goggles shape.